CLAIMS:

- 1. A high-pressure metal pipe comprising a connecting head constructed to have a sleeve washer which covers an outer circumferential surface of the connecting head of reduced diameter, the connecting head of reduced diameter having an outside circumferential surface formed as a truncated cylindrical or truncated spherical seat surface corresponding to a mating seat, and being provided on a connecting end portion of a thick-walled steel pipe having a comparative small diameter, an annular concave groove which occurs in an inside portion of the connecting head during the formation thereof being shallow in depth and gentle in cross section.
- 2. A method of forming a connecting head for a high-pressure metal pipe, comprising the steps of:

fitting a sleeve washer onto a thick-walled steel pipe in the vicinity of a connecting end thereof, the thick-walled steel pipe being cut into a predetermined size in advance and having a comparatively small diameter;

retaining the thick-walled steel pipe with a chuck with a head working section being left on a side which is closer to the connected end than is the sleeve washer; and

working an outside circumferential surface of an end portion of the thick-walled steel pipe into a seat surface having a truncated conical shape or the truncated spherical shape corresponding to a mating seat, by a coaxial external pressure of a punch member having the shape of a connecting head, thereby forming the high-pressure metal pipe so that the sleeve washer covers an outer circumferential surface of the connecting head which is of a reduced diameter and has in its inside an annular concave groove whose contour shape is shallow in depth and gentle.

- 3. A method of forming the connecting head for the high-pressure metal pipe according to claim 2, wherein the reduced-diameter connecting head which has the seat surface having the truncated conical shape or the truncated spherical shape has a maximum outer diameter exclusive of the sleeve washer, which is 10-45% larger than the outer diameter of a straight portion of the thick-walled steel pipe.
- 4. A sleeve washer for a connecting head of a highpressure metal pipe, including a cylindrical portion which
 covers an outer circumferential surface of the connecting
 head.